

**Tortilla Flat Wastewater Treatment Plant  
Aquifer Protection Permit No. P-511839  
Place ID 148411, LTF No. 82220**

## **I. Introduction:**

The Arizona Department of Environmental Quality (ADEQ) proposes to issue an Aquifer Protection Permit (APP) for the subject facility that covers the life of the facility, including operational, closure, and post-closure periods unless suspended or revoked pursuant to Arizona Administrative Code (A.A.C.) R18-9-A213. The requirements contained in this permit will allow the permittee to comply with the two key requirements of the Aquifer Protection Program: 1) meet Aquifer Water Quality Standards (AWQS) at the Point of Compliance (POC); and 2) demonstrate Best Available Demonstrated Control Technology (BADCT). BADCT's purpose is to employ engineering controls, processes, operating methods or other alternatives, including site-specific characteristics (i.e., the local subsurface geology), to reduce discharge of pollutants to the greatest degree achievable before they reach the aquifer or to prevent pollutants from reaching the aquifer.

## **II. Facility Location:**

Tortilla Flat Wastewater Treatment Plant  
One Main Street  
Tortilla Flat, Arizona 85190  
Maricopa

## **III. Facility Description:**

RTDK Management LLC is authorized to operate the Tortilla Flat Wastewater Treatment Plant (WWTP) with a maximum monthly flow of 0.004 million gallon per day (mgd). The Tortilla Flat WWTP serves Tortilla Flat resort, restaurant, gift shop, and a museum located in Tortilla Flat. The WWTP consist of a 1,500 gallon grease interceptor, two (2) equalization tanks, an emergency overflow tank, an aeration basin, a secondary clarifier, a holding tank, two (2) sand filters, chlorination, an effluent holding tank, and an effluent pump station. The effluent may be discharged to an existing evapotranspiration mound (disposal bed) and may be reused for irrigation of trees under a valid Recycled Water General Permit. The facility produces Class C reclaimed water.

## **IV. Regulatory Status:**

The WWTP originally operated under a 1.09 (P-100580) General permit until the permittee upgraded the Wastewater Treatment Plant to an extended aeration system, which required the facility to obtain an Individual APP. The upgraded plant is currently operational.

## **V. Best Available Demonstrated Control Technology (BADCT):**

The facility meets the existing facility criteria as specified in Arizona Administrative Code R18-9-B205. The wastewater includes domestic and restaurant discharges.

- The original wastewater treatment plant was constructed in 1974 and was operated under Groundwater Protection Permit. The facility was issued a Type 1.09 General Permit in year 2000 to operate the existing WWTP.

- The facility changed the old Defiance treatment system to Sequencing Batch Reactor (SBR) in 2007.
- The facility changed the SBR treatment to extended aeration treatment system . The extended aeration treatment system is currently in operation and meets the BADCT requirements under A.A.C. R18-9-B205.

#### **VI. Compliance with Aquifer Water Quality Standards (AWQS):**

To ensure that site operations do not result in violation of Aquifer Water Quality Standards at the point of compliance, representative samples of the effluent will be collected at the effluent pump station (see Section 4.2, Table 7, in the permit). Reclaimed water will be monitored for Class C.

Facility inspection and operational monitoring will be performed on a routine basis (see Section 4.2, Table 8, in the permit).